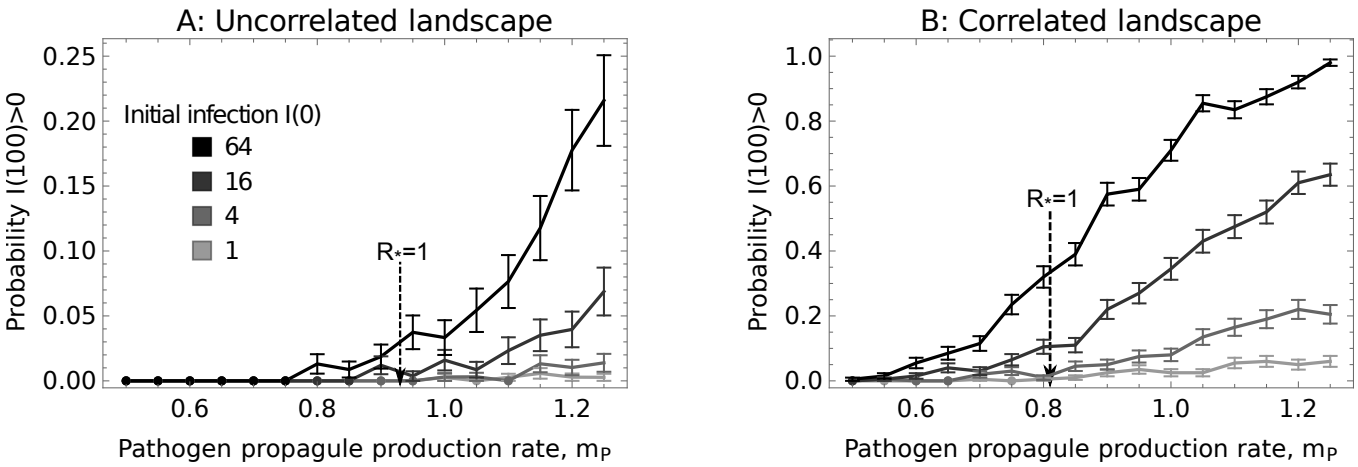

Figure S1: The probability that a disease which spreads by dispersing pathogen propagules remains in the population for 100 time units, against the propagule production rate m_p. Initially between 1 and 64 occupied patches are infected in a metapopulation with 10^5 (occupied or empty) patches. We note the zero order approximation to $R_* = 1$ is given by $m_p = 1$ while the first order approximation is $R_* = 0.93$ in the uncorrelated landscape and $R_* = 0.81$ in the correlated landscape (as shown). The parameters are as in fig. 1 with spatial scales $\delta_S = \delta_P = 2$. Results based on > 200 simulations.